

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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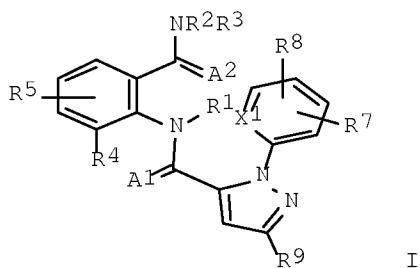
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(US20080070863/PN)

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L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2005:470211 CAPLUS Full-text  
DOCUMENT NUMBER: 143:2640  
TITLE: Synergistic insecticidal combinations  
comprising anthranilic acid amides and pyrethroids.  
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer,  
Ruediger; Hungenberg, Heike; Andersch, Wolfram;  
Thielert, Wolfgang; Kraus, Anton  
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany  
SOURCE: PCT Int. Appl., 64 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

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KZ, LC,	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,			
NA, NI,	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,			
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PRIORITY APPLN. INFO.: DE 2003-10353280 A  
20031114 DE 2004-102004021564A  
20040503 WO 2004-EP12330 W  
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OTHER SOURCE(S): MARPAT 143:2640  
GI



AB Synergistic insecticidal combinations comprise anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted NH; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; R2 = H, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, etc.; R3 = H, (un)substituted alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H,

(halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)cycloalkyl,  
(un)substituted Ph, benzyl, PhO, etc; R5, R8 = H, halo,  
(un)substituted (halo)alkyl, etc.; R7 = H, halo (halo)alkyl,  
(halo)alkoxy, etc.; R9 = haloalkyl, haloalkoxy, haloalkylsulfanyl  
or halo] and pyrethroids.

TI Synergistic insecticidal combinations comprising anthranilic acid  
amides  
and pyrethroids.

AN 2005:470211 CAPLUS Full-text

DN 143:2640

ED Entered STN: 02 Jun 2005

TI Synergistic insecticidal combinations comprising anthranilic acid  
amides  
and pyrethroids.

IN Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg,  
Heike;

Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton

PA Bayer Cropscience Aktiengesellschaft, Germany

SO PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N043-56

ICS A01N055-10; A01N053-14; A01N053-10; A01N053-08; A01N053-06;  
A01N053-04; A01N053-00; A01N047-02; A01N037-34; A01N031-14

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1686859	A1	20060809	EP 2004-791083
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CN 1882245	A	20061220	CN 2004-80033692
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<http://www.cas.org/support/stngen/stndoc/properties.html>

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L3 1 852369-60-9/RN

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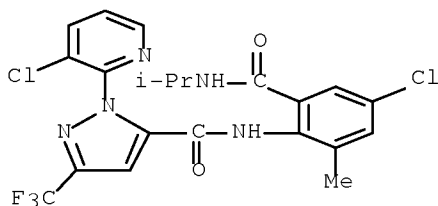
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 852369-60-9 REGISTRY  
CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-,  
(S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)-, mixt. with  
N-[4-chloro-2-methyl-6-[[[(1-methylethyl)amino]carbonyl]phenyl]-1-  
(3-chloro-  
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(CA  
INDEX NAME)  
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MF C22 H19 Br2 N O3 . C21 H18 Cl2 F3 N5 O2  
CI MXS  
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LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 500008-00-4

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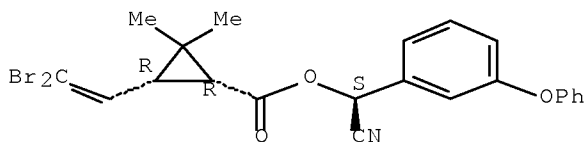


CM 2

CRN 52918-63-5

CMF C22 H19 Br2 N O3

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 852369-62-1/RN

L4 1 852369-62-1/RN

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

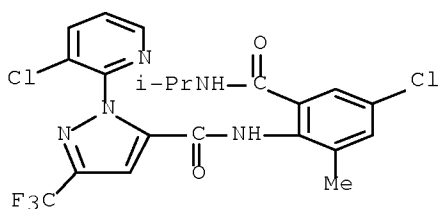
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 rel-, mixt.  
 with N-[4-chloro-2-methyl-6-[[[1-(  
 methylethyl)amino]carbonyl]phenyl]-1-(3-  
 chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide  
 (9CI)  
 (CA INDEX NAME)  
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 MF C23 H19 Cl F3 N O3 . C21 H18 Cl2 F3 N5 O2  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

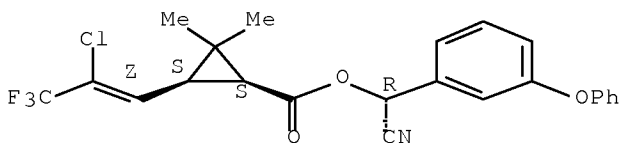
CRN 500008-00-4  
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CM 2

CRN 91465-08-6  
 CMF C23 H19 Cl F3 N O3

Relative stereochemistry.  
 Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

<http://www.cas.org/support/stngen/stndoc/properties.html>

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L5 1 852369-63-2/RN

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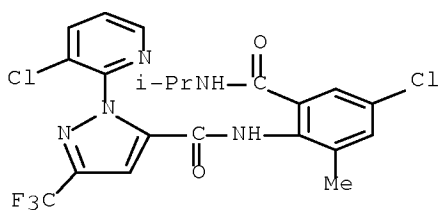
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L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 852369-63-2 REGISTRY  
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-  
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cyano(4-fluoro-3-phenoxyphenyl)methyl ester, mixt. with  
N-[4-chloro-2-methyl-6-[[[(1-methylethyl)amino]carbonyl]phenyl]-1-  
(3-chloro-  
2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI)  
(CA  
INDEX NAME)  
MF C22 H18 Cl2 F N O3 . C21 H18 Cl2 F3 N5 O2  
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DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); USES (Uses)

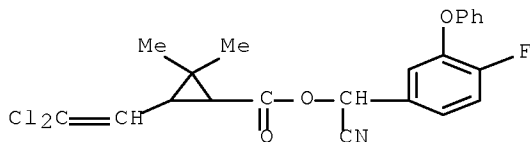
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CM 2

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CMF C22 H18 Cl2 F N O3



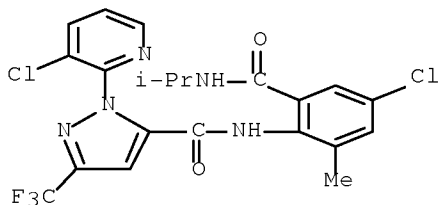
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L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
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 ,  
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 N-[4-chloro-2-methyl-6-[[[(1-methylethyl)amino]carbonyl]phenyl]-1-  
 (3-chloro-  
 2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI)  
 (CA  
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 MF C22 H18 Cl2 F N O3 . C21 H18 Cl2 F3 N5 O2  
 CI MXS  
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 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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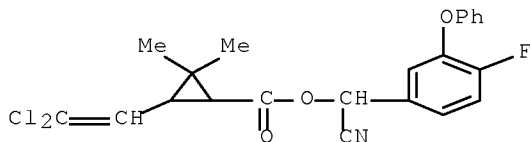
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CRN 68359-37-5  
 CMF C22 H18 Cl2 F N O3





1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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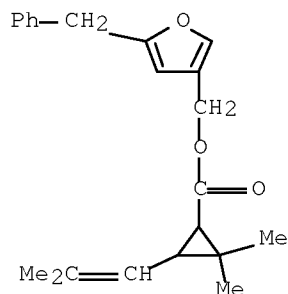
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 10453-86-8 REGISTRY  
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[5-(phenylmethyl)-3-furanyl]methyl ester (CA INDEX NAME)  
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CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,  
[5-(phenylmethyl)-3-furanyl]methyl ester (9CI)  
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-,  
(5-benzyl-3-furyl)methyl ester (8CI)  
OTHER NAMES:  
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CN (5-Benzyl-3-furyl)methyl chrysanthemate  
CN (5-Benzyl-3-furyl)methyl-DL-cis, trans-chrysanthemate  
CN 5-Benzyl-3-furymethyl (±)-cis-trans-chrysanthemate  
CN 5-Benzylfurfuryl chrysanthemate  
CN ARI-B  
CN Chrysron  
CN Crossfire  
CN dl-cis,trans-[(5-Benzyl-3-furyl)methyl]chrysanthemumate  
CN Enforcer  
CN NIA 17370  
CN NRDC 104  
CN Penick 1382

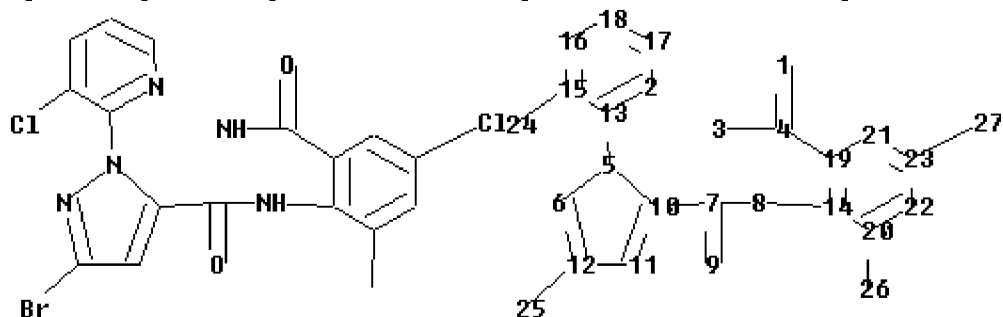
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 PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2,  
 USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA CAplus document type: Conference; Dissertation; Journal;  
 Patent; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological  
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 USES (Uses)  
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 study); MSC (Miscellaneous); OCCU (Occurrence); PREP  
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 study); OCCU (Occurrence)



<http://www.cas.org/support/stngen/stdoc/properties.html>

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ring nodes :

2 5 6 10 11 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

1-4 3-4 4-19 5-13 7-10 7-8 7-9 8-14 12-25 15-24 20-26 23-27

ring bonds :

2-13 2-17 5-10 5-6 6-12 10-11 11-12 13-15 14-19 14-20 15-16

16-18 17-18 19-21 20-22 21-23 22-23

exact/norm bonds :

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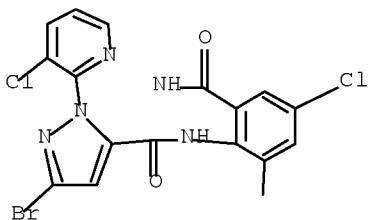
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L7           STRUCTURE UPLOADED

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L7 HAS NO ANSWERS

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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51008 PESTICIDES/CT

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223 PRY

28 PRIES

250 PRY

(PRY OR PRIES)

43663 2003

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(PRY(W)2003)

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L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:       2003:154408 CAPLUS Full-text

DOCUMENT NUMBER:       138:205054

TITLE:                   Preparation of substituted anthranilamides for  
controlling invertebrate pests

INVENTOR(S):           Finkelstein, Bruce Lawrence; Lahm, George  
Philip;

McCann, Stephen Frederick; Song, Ying;

Stevenson,

Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 105 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

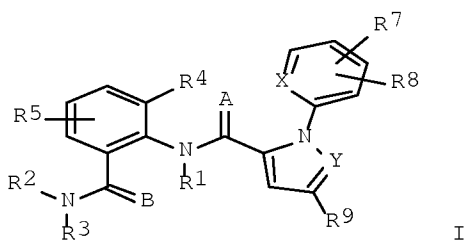
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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 20070131 <--  
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                                  WO 2002-US26960      W  
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                                  US 2004-486312      A3  
 20040722  
 OTHER SOURCE(S):      MARPAT 138:205054  
 GI



AB    The title compds. [I; A, B = O, S; X = N, CR10; Y = N, CH; R1 = H, alkyl, cycloalkyl, etc.; R2 = alkyl, alkenyl, cycloalkyl, etc.; R3 = H, alkyl, alkenyl, etc.; NR2R3 = (un)substituted ring optionally containing addnl. heteroatom; R4 = alkyl, haloalkyl, CN, etc.; R5, R8 = H, alkyl, haloalkyl, etc.; R7 = H, alkyl, haloalkyl, etc.; R9 = CF3, OCF3, OCHF2, etc.; R10 = H, alkyl, haloalkyl, etc.], useful for controlling an invertebrate pest, were prepared E.g., a 3-step synthesis of I [A, B = O; X = CH; Y = N; R1 = H; R2 = iso-Pr; R3 = H; R4 = Me; R5 = H; R7 = 2-(CH2OH); R8 = H; R9 = CF3], starting from 1-[2-(methoxycarbonyl)phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid and 2-amino-3-methylbenzoic acid, which provided excellent levels of plant protection (20% or less damage) in biol. tests, was given.

TI    Preparation of substituted anthranilamides for controlling invertebrate pests

REFERENCE COUNT:      3      THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RE FORMAT      RECORD. ALL CITATIONS AVAILABLE IN THE

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e 10453-86-8/rn

E1      1      10453-65-3/RN  
 E2      1      10453-67-5/RN  
 E3      1 --> 10453-86-8/RN  
 E4      1      10453-87-9/RN

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E6	1	10453-89-1/RN
E7	1	10453-95-9/RN
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E10	1	10453-98-2/RN
E11	1	10453-99-3/RN
E12	1	104530-00-9/RN

=> s e3

L13 1 10453-86-8/RN

=> d 113

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 10453-86-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propen-1-yl)-,

[5-(phenylmethyl)-3-furanyl]methyl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Furanmethanol, 5-benzyl-, 2,2-dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylate (8CI)

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,

[5-(phenylmethyl)-3-furanyl]methyl ester (9CI)

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8CI)

OTHER NAMES:

CN (5-Benzyl-3-furyl)methyl 2,2-dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylate

CN (5-Benzyl-3-furyl)methyl chrysanthemate

CN (5-Benzyl-3-furyl)methyl-DL-cis, trans-chrysanthemate

CN 5-Benzyl-3-furylmethyl (±)-cis-trans-chrysanthemate

CN 5-Benzylfurfuryl chrysanthemate

CN ARI-B

CN Chrysron

CN Crossfire

CN dl-cis,trans-[(5-Benzyl-3-furyl)methyl]chrysanthemumate

CN Enforcer

CN NIA 17370

CN NRDC 104

CN Penick 1382

CN Penncapthrin

CN Pyrethrin

CN Resmethrin

CN SBP 1382

CN SBP 1383

CN Seco

CN [5-(Phenylmethyl)-3-furanyl]methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate

DR 24004-07-7

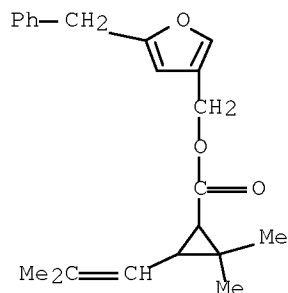
MF C22 H26 O3

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA,

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CSNB,  
 DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE,  
 MSDS-OHS,  
 PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2,  
 USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

812 REFERENCES IN FILE CA (1907 TO DATE)  
 73 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 819 REFERENCES IN FILE CAPLUS (1907 TO DATE)

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l12 and l13  
 819 L13  
 L15 0 L12 AND L13

=> d l12 ibib abs ti all

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2003:154408 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:205054  
 TITLE: Preparation of substituted anthranilamides for  
 controlling invertebrate pests  
 INVENTOR(S): Finkelstein, Bruce Lawrence; Lahm, George  
 Philip;  
 McCann, Stephen Frederick; Song, Ying;  
 Stevenson,  
 Thomas Martin  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 105 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English



FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2003016284	A1	20030227	WO 2002-US26960	
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CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,				
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PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR,				
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US 2004-486312

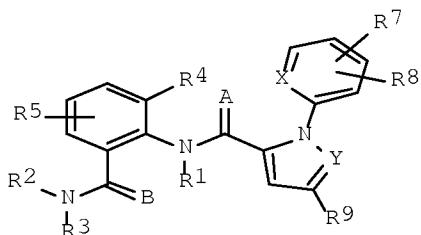
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20040722

OTHER SOURCE(S):

MARPAT 138:205054

GI



AB The title compds. [I; A, B = O, S; X = N, CR10; Y = N, CH; R1 = H, alkyl, cycloalkyl, etc.; R2 = alkyl, alkenyl, cycloalkyl, etc.; R3 = H, alkyl, alkenyl, etc.; NR2R3 = (un)substituted ring optionally containing addnl. heteroatom; R4 = alkyl, haloalkyl, CN, etc.; R5, R8 = H, alkyl, haloalkyl, etc.; R7 = H, alkyl, haloalkyl, etc.; R9 = CF3, OCF3, OCHF2, etc.; R10 = H, alkyl, haloalkyl, etc.], useful for controlling an invertebrate pest, were prepared E.g., a 3-step synthesis of I [A, B = O; X = CH; Y = N; R1 = H; R2 = iso-Pr; R3 = H; R4 = Me; R5 = H; R7 = 2-(CH2OH); R8 = H; R9 = CF3], starting from 1-[2-(methoxycarbonyl)phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid and 2-amino-3-methylbenzoic acid, which provided excellent levels of plant protection (20% or less damage) in biol. tests, was given.

TI Preparation of substituted anthranilamides for controlling invertebrate pests

AN 2003:154408 CAPLUS [Full-text](#)

DN 138:205054

ED Entered STN: 28 Feb 2003

TI Preparation of substituted anthranilamides for controlling invertebrate pests

IN Finkelstein, Bruce Lawrence; Lahm, George Philip; McCann, Stephen Frederick; Song, Ying; Stevenson, Thomas Martin

PA E. I. Du Pont de Nemours & Co., USA

SO PCT Int. Appl., 105 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D231-14

ICS C07D401-04; A01N043-56

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

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PI WO 2003016284 A1 20030227 WO 2002-US26960  
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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,  
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L16 1 500028-88-6/RN

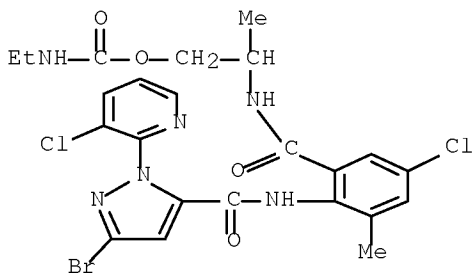
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 500028-88-6 REGISTRY  
CN Carbamic acid, ethyl-, 2-[[2-[[[3-bromo-1-(3-chloro-2-pyridinyl)-  
1H-pyrazol-5-yl]carbonyl]amino]-5-chloro-3-methylbenzoyl]amino]propyl  
ester  
(9CI) (CA INDEX NAME)  
MF C23 H23 Br Cl2 N6 O4  
SR CA  
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); PREP  
(Preparation); USES  
(Uses)



<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 500028-79-5/RN

L17 1 500028-79-5/RN

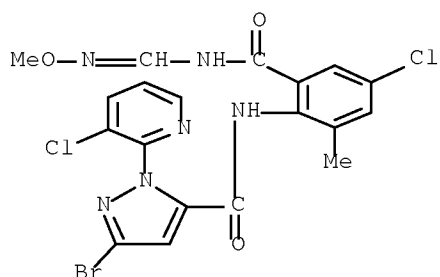
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NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=> D L17 SQIDE 1-

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 500028-79-5 REGISTRY  
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-

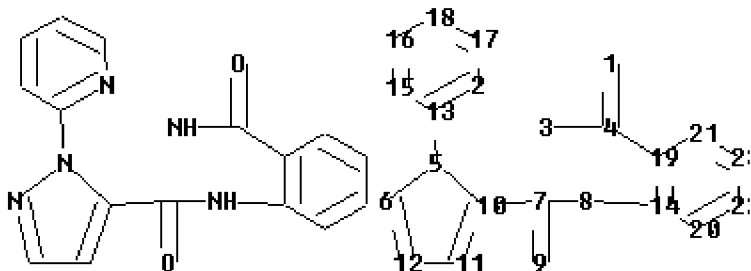
[[[(methoxyamino)methylene]amino]carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)  
 MF C19 H15 Br Cl2 N6 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10579076 genus anthranilamide.str



chain nodes :

1 3 4 7 8 9

ring nodes :

2 5 6 10 11 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

1-4 3-4 4-19 5-13 7-10 7-8 7-9 8-14

ring bonds :

2-13 2-17 5-10 5-6 6-12 10-11 11-12 13-15 14-19 14-20 15-16  
16-18 17-18 19-21 20-22 21-23 22-23

exact/norm bonds :

1-4 3-4 5-10 5-6 5-13 6-12 7-8 7-9 8-14 10-11 11-12

exact bonds :

4-19 7-10

normalized bonds :

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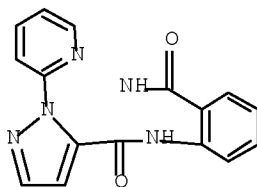
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L18 STRUCTURE UPLOADED

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L18 HAS NO ANSWERS

L18 STR



=> e acrinathrin/cn

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E15	1 -->	ACRINATHRIN/CN
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E23	1	ACRINATHRIN-PRALLETHRIN MIXT./CN
E24	1	ACRINATHRIN-PROPAMOCARB HYDROCHLORIDE MIXT./CN

=> s e15

L21 1 ACRINATHRIN/CN

=> d l21

L21 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 101007-06-1 REGISTRY

ED Entered STN: 22 Mar 1986

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[(1Z)-3-oxo-3-[2,2,2-trifluoro-

1-(trifluoromethyl)ethoxy]-1-propen-1-yl]-,

(S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3S)- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[(1Z)-3-oxo-3-[2,2,2-trifluoro-

1-(trifluoromethyl)ethoxy]-1-propenyl]-, (S)-cyano(3-

phenoxyphenyl)methyl

ester, (1R,3S)- (9CI)

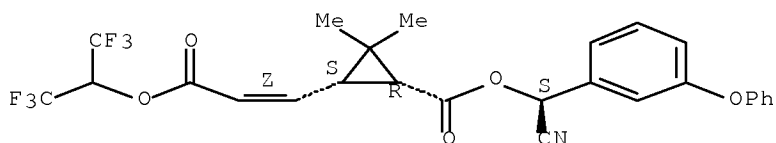
CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-[3-oxo-3-[2,2,2-trifluoro-1-

(trifluoromethyl)ethoxy]-1-propenyl]-, cyano(3-  
phenoxyphenyl)methyl ester,  
[1R-[1 $\alpha$ (S\*), 3 $\alpha$ (Z)]]-

OTHER NAMES:

CN ACR 50  
CN ACR 50 (pesticide)  
CN Acrinathrin  
CN Ardent  
CN HOE 076003  
CN NU 702  
CN Orytis  
CN RU 38702  
CN Rufast  
FS STEREOSEARCH  
MF C26 H21 F6 N O5  
CI COM  
SR CA  
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS, CASREACT,  
CBNB,  
CHEMCATS, CHEMLIST, CSCHEM, MRCK\*, MSDS-OHS, PROMT, RTECS\*,  
TOXCENTER,  
USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Absolute stereochemistry.  
Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

330 REFERENCES IN FILE CA (1907 TO DATE)  
63 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
335 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e alpha-cypermethrin/cn

E25	1	ALPHA-CYCLODEXTRINASE (GEOBACILLUS KAUSTOPHILUS
STRAIN HTA42		6) /CN
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HYDROCHLO		RIDE/CN
E27	0 -->	ALPHA-CYPERMETHRIN/CN
E28	1	ALPHA-CYPERMETHRIN-FENAMIDONE MIXT./CN
E29	1	ALPHA-CYPERMETHRIN-PROPAMOCARB HYDROCHLORIDE
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STRAIN H		

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E40	1	ALPHA D3/CN
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		97 GENE AE1)/CN
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		COOLEY 4/97 CLONE HF41CC GENE AE7)/CN
E44	1	ALPHA E8 ESTERASE (HAEMATOBIA IRRITANS STRAIN CAMP
COOLEY-4/		
		97 GENE AE8)/CN
E45	3	ALPHA ENDOSULFINE (HUMAN)/CN
E46	1	ALPHA ENOLASE (HUMAN CLONE 23942)/CN
E47	1	ALPHA ENOLASE LIKE 1 (HUMAN GENE ENO1L1)/CN
E48	1	ALPHA ENOLASE/TAU-CRYSTALLIN (FICEDULA HYPOLEUCA
ISOLATE OS3		
		)/CN

=> e cypermethrin/cn

E49	1	CYPERIN/CN
E50	1	CYPERKILL/CN
E51	1 -->	CYPERMETHRIN/CN
E52	1	CYPERMETHRIN, D-TRANS-A/CN
E53	1	CYPERMETHRIN, D-TRANS-B/CN
E54	1	CYPERMETHRIN-ABAMECTIN MIXT./CN
E55	1	CYPERMETHRIN-ACEPHATE MIXT./CN
E56	1	CYPERMETHRIN-ACETAMIPRID MIXT./CN
E57	1	CYPERMETHRIN-ALLYL ISOTHIOCYANATE MIXT./CN
E58	1	CYPERMETHRIN-AVERMECTIN MIXT./CN
E59	1	CYPERMETHRIN-BACILLUS THURINGIENSIS MIXT./CN



E60 1 CYPERMETHRIN-BENSULTAP MIXT./CN

=> s e51

L22 1 CYPERMETHRIN/CN

=> d 122

L22 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 52315-07-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-

, cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN  $\alpha$ -Cyano-m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CN Agrometrin

CN Agrothrin

CN Almetrin

CN Ambush C

CN Ambush CY

CN Ammo

CN Ammo (pesticide)

CN Antiborer 3767

CN Ardap

CN Arrivo

CN Asymmethrin

CN Bandit

CN Barrage

CN Barricade

CN Barricade (insecticide)

CN Barricade 10EC

CN Basathrin

CN Battery (insecticide)

CN Beta-cypermethrin

CN CCN 52

CN Chinimix

CN Chinmix

CN Cilcord

CN cis-Cypermethrin

CN Colt

CN Creokhin

CN Cybil

CN Cymbush

CN Cymet

CN Cympa-Ti

CN Cymperator

CN Cyperco

CN Cyperil

CN Cyperkill

CN Cypermethrin

CN Cypor

CN Demon

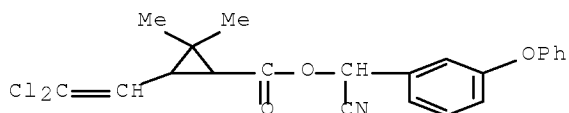
CN Demon TC

CN Dimcyp

CN Drago

CN Ecofleece Sheep Dip (Non-OP)

CN Ectomin  
 CN Ectopor  
 CN Excis  
 CN EXP 5598  
 CN Fenom  
 CN Fenom (pesticide)  
 CN Flytick  
 CN FMC 30980  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL  
 for  
 DISPLAY  
 DR 727730-89-4, 97955-44-7, 139203-31-9, 137497-61-1, 69865-47-0,  
 142443-95-6, 146909-55-9, 86752-99-0, 86753-92-6, 88161-75-5,  
 159940-28-0,  
 186554-45-0  
 MF C22 H19 Cl2 N O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,  
 CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 CSNB,  
 DDFU, DETHERM\*, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB,  
 IPA,  
 MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER,  
 ULIDAT, USAN,  
 USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5818 REFERENCES IN FILE CA (1907 TO DATE)  
 184 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 5855 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e betacyfluthrin/cn

E61	1	BETACYAMINE/CN
E62	1	BETACYANINS/CN
E63	0 -->	BETACYFLUTHRIN/CN
E64	1	BETACYFLUTHRIN-CHLORPYRIFOS MIXT./CN
E65	1	BETACYHALOTHRIN/CN
E66	1	BETACYLINDRIN/CN
E67	1	BETADET DM 20/CN
E68	1	BETADET HR/CN
E69	1	BETADET HR-E/CN

E70 1 BETADET S 20/CN  
E71 1 BETADET SC 2/CN  
E72 1 BETADET SH-R/CN

=> e cyfluthrin/cn

E73 1 CYFLUMETOFEN-SPIROMESIFEN MIXT./CN  
E74 1 CYFLUMETOFEN-SPIROTETRAMAT MIXT./CN  
E75 1 --> CYFLUTHRIN/CN  
E76 1 CYFLUTHRIN-ALLYL ISOTHIOCYANATE MIXT./CN  
E77 1 CYFLUTHRIN-CHLORPYRIFOS-METHYL MIXT./CN  
E78 1 CYFLUTHRIN-ETHION MIXT./CN  
E79 1 CYFLUTHRIN-FENAMIDONE MIXT./CN  
E80 1 CYFLUTHRIN-IMIDACLOPRID MIXT./CN  
E81 1 CYFLUTHRIN-PENTHIOPYRAD MIXT./CN  
E82 1 CYFLUTHRIN-PHOXIM MIXT./CN  
E83 1 CYFLUTHRIN-PIPERONYL BUTOXIDE MIXT./CN  
E84 1 CYFLUTHRIN-PIPERONYL BUTOXIDE-CHLORPYRIFOS-METHYL  
MIXT./CN

=> s e75

L23 1 CYFLUTHRIN/CN

=> d 123

L23 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 68359-37-5 REGISTRY

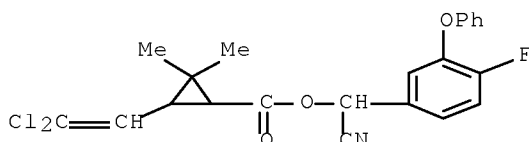
ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-  
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cyano(4-fluoro-3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN  $\alpha$ -Cyano-3-phenoxy-4-fluorobenzyl  
2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylate  
CN BAY-FCR 1272  
CN BAY-VI 1704  
CN Baythroid  
CN Baythroid XL  
CN Beta-Baythroid  
CN Beta-cyfluthrin  
CN Bulldock  
CN Bulldock 125SC  
CN Cyfluthrin  
CN Cyfoxylate  
CN Eulan SP  
CN FCR 1272  
CN FCR 4545  
CN Optem PT 600  
CN Renounce  
CN Responsar  
CN Solfac  
CN Syfrutrin  
CN Tempo 2  
CN Tempo Ultra  
CN Tombstone  
DR 85782-82-7, 83855-46-3  
MF C22 H18 Cl2 F N O3  
CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,  
 CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 CSNB,  
 DDFU, DRUGU, EMBASE, HSDB\*, MEDLINE, MRCK\*, MSDS-OHS, PATDPASPC,  
 PROMT,  
 RTECS\*, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1818 REFERENCES IN FILE CA (1907 TO DATE)  
 128 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1837 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e cyhalothrin/cn

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E86	1	CYHALOFOP-TRICLOPYR MIXT./CN
E87	1	--> CYHALOTHRIN/CN
E88	1	CYHALOTHRIN ACID/CN
E89	1	CYHALOTHRIN K/CN
E90	1	CYHALOTHRIN-DEF MIXT./CN
E91	1	CYHALOTHRIN-DIPTEREX MIXT./CN
E92	1	CYHALOTHRIN-EMAMECTIN BENZOATE MIXT./CN
E93	1	CYHALOTHRIN-MONOCROTOPHOS MIXT./CN
E94	1	CYHALOTHRIN-PARATHION MIXT./CN
E95	1	CYHALOTHRIN-PENTHIOPYRAD MIXT./CN
E96	1	CYHALOTHRIN-PHOXIM MIXT./CN

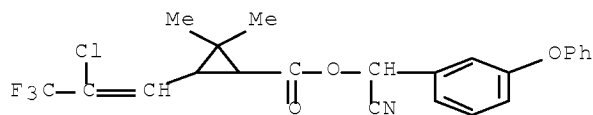
=> s e87

L24 1 CYHALOTHRIN/CN

=> d 124

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 68085-85-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propen-1-yl)-  
 2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-

dimethyl-, cyano(3-phenoxyphenyl)methyl ester (9CI)  
 OTHER NAMES:  
 CN  $\alpha$ -Cyano-3-phenoxybenzyl 3-(2-chloro-3,3,3-trifluoroprop-1-en-1-yl)-  
 2,2-dimethylcyclopropanecarboxylate  
 CN Clocythrin  
 CN Coopertix  
 CN Cyhalothrin  
 CN Gongfu  
 CN Grenade  
 CN ICI-PP 563  
 CN PP 563  
 CN Saber  
 DR 149436-99-7, 255725-86-1  
 MF C23 H19 Cl F3 N O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,  
 CABA, CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,  
 DRUGU,  
 EMBASE, HSDB\*, MEDLINE, MRCK\*, MSDS-OHS, PATDPASPC, PIRA, PROMT,  
 RTECS\*,  
 TOXCENTER, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 120 and (121-124)
      378 L20
      335 L21
      5855 L22
      1837 L23
      964 L24
L25      82 L20 AND ((L21 OR L22 OR L23 OR L24))

=> s 125 and pesticides/ct
      51008 PESTICIDES/CT
L26      13 L25 AND PESTICIDES/CT

=> s 125 and pests/ct
      618 PESTS/CT
L27      1 L25 AND PESTS/CT
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=> s 125 and insects/ct
      2069 INSECTS/CT
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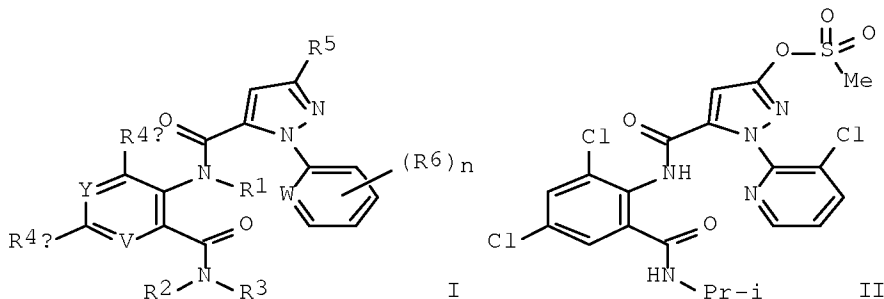
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L30      10 L29 AND L26

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      3975310 PRY<2003
L31      2 L26 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d l31 abs ti hitind ibib 1-2

L31  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2009 ACS on STN
GI

```



AB The invention provides title compds. I and their N-oxides and suitable salts [wherein: Y, V = N or CR<sub>4a</sub>; W = N, CH, or CR<sub>6</sub>; R<sub>1</sub> = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxycarbonyl, (di)alkylaminocarbonyl; R<sub>2</sub> = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxycarbonyl, or alkylcarbonyl; R<sub>3</sub> = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR<sub>2</sub>R<sub>3</sub> = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R<sub>4a</sub>, R<sub>4b</sub> = H, various carbon and heteroat. substituents; R<sub>5</sub> = alk(en/yn)yl, various derivs. of OH, SH, and NH<sub>2</sub>; R<sub>6</sub> = (halo)alk(en/yn)yl, OH and derivs. or thio analogs, halo, cyano, CO<sub>2</sub>H, (di)alkylamino, (un)substituted Ph, PhCH<sub>2</sub>, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compns. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at

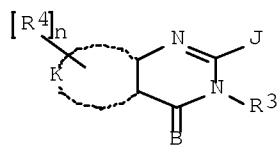
least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylate, which was oxidized to a dihydropyrazolone, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH<sub>2</sub>, to give invention compound II. In a test of larval *Plutella xylostella* on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against *Spodoptera frugiperda*, *Myzus persicae*, and *Empoasca fabae*.

TI Novel pyrazole-based anthranilamide insecticides and their preparation,  
 compositions, and use  
 IC ICM C07D401-00  
 CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5  
 IT Acaricides  
 Insecticides  
 Pesticides

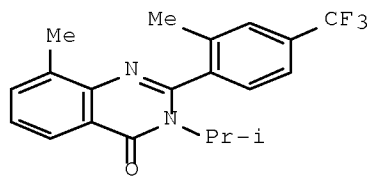
ACCESSION NUMBER: 2004:453202 CAPLUS Full-text  
 DOCUMENT NUMBER: 141:23526  
 TITLE: Novel pyrazole-based anthranilamide  
 insecticides and  
 their preparation, compositions, and use  
 INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip;  
 Selby,  
 Thomas Paul  
 PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004046129	A2	20040603	WO 2003-US36167	
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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
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 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI,  
 SK, TR,  
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 AU 2003295491 A1 20040615 AU 2003-295491  
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 BR 2003015714 A 20050906 BR 2003-15714  
 20031112 <--  
 CN 1711255 A 20051221 CN 2003-80103401  
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 JP 2006514632 T 20060511 JP 2004-553598  
 20031112 <--  
 US 20060014808 A1 20060119 US 2005-529612  
 20050330 <--  
 MX 2005005025 A 20050803 MX 2005-5025  
 20050510 <--  
 PRIORITY APPLN. INFO.: US 2002-426693P P  
 20021115 <--  
 WO 2003-US36167 W  
 20031112  
 OTHER SOURCE(S): MARPAT 141:23526  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE  
 FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE  
 RE FORMAT  
 L31 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
 GI



I



II

AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous linking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R3 = G, alkyl,



cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4], useful for controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in in test on diamondback moth (Plutella xylostella)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

ACCESSION NUMBER: 2002:465981 CAPLUS Full-text  
DOCUMENT NUMBER: 137:47212  
TITLE: Preparation of quinazolinones and  
pyridopyrimidinones  
for controlling invertebrate pests  
INVENTOR(S): Annis, Gary David; Myers, Brian James; Selby,  
Thomas  
Paul; Stevenson, Thomas Martin; Zimmerman,  
William  
Thomas  
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
SOURCE: PCT Int. Appl., 180 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002048115	A2	20020620	WO 2001-US46629	
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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,				
PH, PL,				
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,				
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US, UZ, VN, YU, ZA, ZW				
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AU 2002027243 A 20020624 AU 2002-27243  
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 JP 2004515543 T 20040527 JP 2002-549646  
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 20031014 <--  
 PRIORITY APPLN. INFO.: US 2000-254614P P  
 20001211 <--  
 WO 2001-US46629 W  
 20011203 <--  
 OTHER SOURCE(S): MARPAT 137:47212  
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE  
 FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE  
 RE FORMAT

=> s 129 and (py<2003 or ay<2003 or pry<2003)  
 22983868 PY<2003  
 4505976 AY<2003  
 3975310 PRY<2003  
 L32 5 L29 AND (PY<2003 OR AY<2003 OR PRY<2003)

=> d 132 ibib abs ti hit 1-5

L32 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:453202 CAPLUS Full-text  
 DOCUMENT NUMBER: 141:23526  
 TITLE: Novel pyrazole-based anthranilamide  
 insecticides and  
 their preparation, compositions, and use  
 INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip;  
 Selby,  
 Thomas Paul  
 PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	----
WO 2004046129	A2	20040603	WO 2003-US36167	
20031112 <--				
WO 2004046129	A3	20040715		
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CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,				
GE, GH,				



H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxy carbonyl, (di)alkylaminocarbonyl; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxy carbonyl, or alkylcarbonyl; R3 = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR2R3 = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R4a, R4b = H, various carbon and heteroat. substituents; R5 = alk(en/yn)yl, various derivs. of OH, SH, and NH2; R6 = (halo)alk(en/yn)yl, OH and derivs. or thio analogs, halo, cyano, CO2H, (di)alkylamino, (un)substituted Ph, PhCH2, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compns. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylate, which was oxidized to a dihydropyrazolone, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH2, to give invention compound II. In a test of larval Plutella xylostella on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against Spodoptera frugiperda, Myzus persicae, and Empoasca fabae.

L32 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:261833 CAPLUS Full-text

DOCUMENT NUMBER: 138:287669

TITLE: Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides

INVENTOR(S): Zimmerman, William Thomas

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

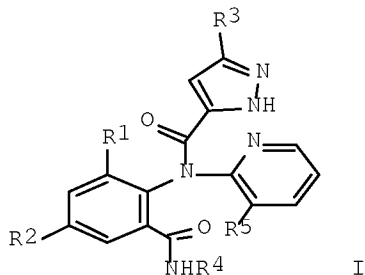
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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 OTHER SOURCE(S): MARPAT 138:287669  
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AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkylthio, alkoxycarbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.], were prepared Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)<sub>2</sub> and cat. DMF in CH<sub>2</sub>Cl<sub>2</sub> to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me<sub>2</sub>CHNH<sub>2</sub> to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with *Plutella xylostella* gave ≤10% feeding damage.

L32 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:242097 CAPLUS Full-text

DOCUMENT NUMBER: 138:267201

TITLE: Pesticidal compositions for coating plant propagation

material containing anthranilamides  
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

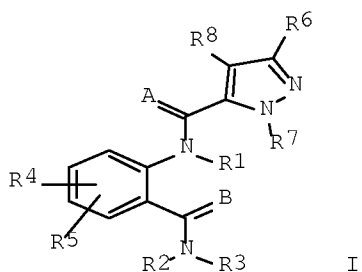
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 OTHER SOURCE(S):           MARPAT 138:267201  
 GI



AB    An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

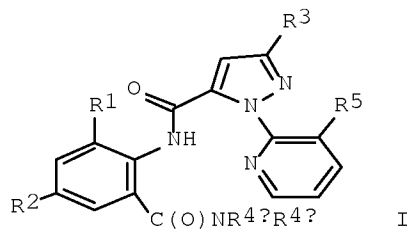
L32   ANSWER 4 OF 5   CAPLUS   COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER:       2003:154155   CAPLUS   Full-text  
 DOCUMENT NUMBER:       138:200332  
 TITLE:                   Arthropodicidal anthranilamides  
 INVENTOR(S):           Lahm, George Philip; Selby, Thomas Paul;  
                          Stevenson,  
                          Thomas Martin  
 PATENT ASSIGNEE(S):    E. I. Du Pont de Nemours & Co., USA  
 SOURCE:                 PCT Int. Appl., 82 pp.  
                          CODEN: PIXXD2  
 DOCUMENT TYPE:         Patent  
 LANGUAGE:               English  
 FAMILY ACC. NUM. COUNT: 4



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AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurstaki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

L32 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:154154 CAPLUS Full-text

DOCUMENT NUMBER: 138:200331

TITLE: Method for controlling particular insect pests by

applying anthranilamide compounds

INVENTOR(S): Lahm, George Philip; McCann, Stephen

Frederick; Patel,

Kanu Maganbhai; Selby, Thomas Paul; Stevenson,

Thomas

Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

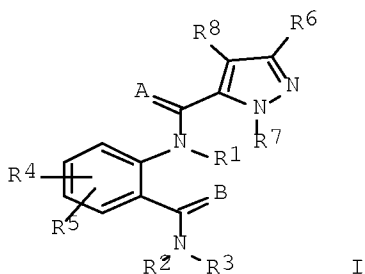
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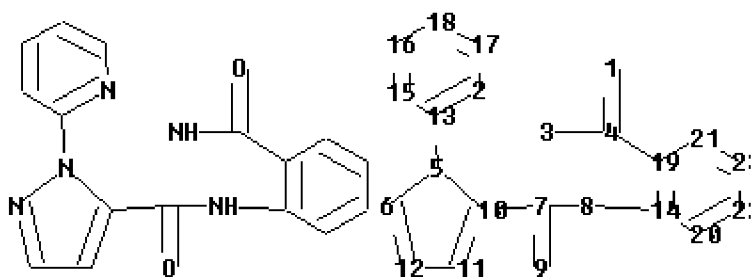


AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

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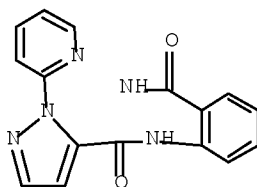
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> e cypermethrin/cn

E1	1	CYPERIN/CN
E2	1	CYPERKILL/CN
E3	1 -->	CYPERMETHRIN/CN
E4	1	CYPERMETHRIN, D-TRANS-A/CN
E5	1	CYPERMETHRIN, D-TRANS-B/CN
E6	1	CYPERMETHRIN-ABAMECTIN MIXT./CN
E7	1	CYPERMETHRIN-ACEPHATE MIXT./CN
E8	1	CYPERMETHRIN-ACETAMIPRID MIXT./CN
E9	1	CYPERMETHRIN-ALLYL ISOTHIOCYANATE MIXT./CN
E10	1	CYPERMETHRIN-AVERMECTIN MIXT./CN
E11	1	CYPERMETHRIN-BACILLUS THURINGIENSIS MIXT./CN
E12	1	CYPERMETHRIN-BENSULTAP MIXT./CN

=> set expand continuous

SET COMMAND COMPLETED

=> s e3

L2 1 CYPERMETHRIN/CN

=> d 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 52315-07-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-

,

cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN  $\alpha$ -Cyano-m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CN Agrometrin

CN Agrothrin

CN Almetrin

CN Ambush C

CN Ambush CY

CN Ammo

CN Ammo (pesticide)

CN Antiborer 3767

CN Ardap

CN Arrivo

CN Asymmethrin

CN Bandit

CN Barrage

CN Barricade

CN Barricade (insecticide)

CN Barricade 10EC

CN Basathrin

CN Battery (insecticide)

CN Beta-cypermethrin

CN CCN 52

CN Chinimix

CN Chinmix

CN Cilcord

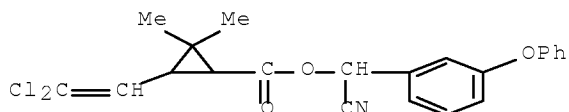
CN cis-Cypermethrin

CN Colt

CN Creokhin  
 CN Cybil  
 CN Cymbush  
 CN Cymet  
 CN Cympa-Ti  
 CN Cymperator  
 CN Cyperco  
 CN Cyperil  
 CN Cyperkill  
 CN Cypermethrin  
 CN Cypor  
 CN Demon  
 CN Demon TC  
 CN Dimcyp  
 CN Drago  
 CN Ecofleece Sheep Dip (Non-OP)  
 CN Ectomin  
 CN Ectopor  
 CN Excis  
 CN EXP 5598  
 CN Fenom  
 CN Fenom (pesticide)  
 CN Flytick  
 CN FMC 30980

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for

DISPLAY  
 DR 727730-89-4, 97955-44-7, 139203-31-9, 137497-61-1, 69865-47-0,  
 142443-95-6, 146909-55-9, 86752-99-0, 86753-92-6, 88161-75-5,  
 159940-28-0,  
 186554-45-0  
 MF C22 H19 Cl2 N O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,  
 CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 CSNB,  
 DDFU, DETHERM\*, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB,  
 IPA,  
 MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER,  
 ULIDAT, USAN,  
 USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*



5823 REFERENCES IN FILE CA (1907 TO DATE)  
 185 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 5861 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e delta-methrin/cn

E13	1	DELTA-LYSIN II/CN
E14	1	DELTA-LYSIN II (STAPHYLOCOCCUS WARNERI)/CN
E15	0 -->	DELTA-METHRIN/CN
E16	1	DELTA-NOTCH-LIKE EGF REPEAT-CONTAINING TRANSMEMBRANE (HUMAN CLONE MGC:33398 IMAGE:4820343)/CN
E17	1	DELTA-PLASMINOGEN (SYNTHETIC HUMAN)/CN
E18	1	DELTA-SEAL/CN
E19	1	DELTA-STAB/CN
E20	1	DELTA-SUBUNIT OF ETHYLBENZENE DEHYDROGENASE (AZOARCUS STRAIN EBN1 GENE EBDD)/CN
E21	1	DELTA-TONE 9000/CN
E22	1	DELTA-V (ERYTHROVIRUS B19 CLONE F-2 N-TERMINAL FRAGMENT)/CN
E23	1	DELTA-V (ERYTHROVIRUS B19 CLONE F-3 N-TERMINAL FRAGMENT)/CN
E24	1	DELTA-VALEROLACTAM/CN

=> e delta methrin/cn

E25	1	DELTA KURE COREACTANT/CN
E26	1	DELTA KURE RESIN/CN
E27	0 -->	DELTA METHRIN/CN
E28	1	DELTA METHYL IONONE/CN
E29	1	DELTA NAIP PROTEIN (MOUSE STRAIN C57BL/6J ISOLATE B6-235-SP6 CLONE B6-235 GENE DELTANAIP FRAGMENT/CN
E30	1	DELTA NE 200/CN
E31	1	DELTA P/CN
E32	1	DELTA PA 441/CN
E33	1	DELTA PA 4410/CN
E34	1	DELTA PA 442/CN
E35	1	DELTA PA 445/CN
E36	1	DELTA PA 450/CN

=> e delta!methrin/cn

E37	1	DELTA TUBULIN (PLASMODIUM FALCIPARUM STRAIN 3D7 GENE PFI1635 W)/CN
E38	1	DELTA X 9/CN
E39	0 -->	DELTA!METHRIN/CN
E40	1	DELTA' SUBUNIT (STREPTOCOCCUS PNEUMONIAE STRAIN R6 GENE HOLB ) /CN
E41	1	DELTA' SUBUNIT (YERSINIA PESTIS STRAIN CO92 GENE HOLB) /CN
E42	1	DELTA(12)-FATTY ACID DEHYDROGENASE (PROCHLOROCOCCUS MARINUS STRAIN MIT 9312)/CN
E43	1	DELTA(2)-ISOPENTENYLPYRO PHOSPHATE TRNA-ADENOSINE

TRANSFERAS

E (ESCHERICHIA COLI O157:H7 STRAIN EDL933 GENE MIAA)/CN

E44 1 DELTA(2)-ISOPENTENYLPYRO PHOSPHATE TRNA-ADENOSINE TRANSFERAS

E (ESCHERICHIA COLI STRAIN O157:H7 GENE ECS5147)/CN

E45 1 DELTA(2)-ISOPENTENYLPYRO PHOSPHATE TRNA-ADENOSINE TRANSFERAS

E (SALMONELLA ENTERICA TYPHIMURIUM STRAIN LT2; SGSC 1412; AT

CC 700720 GENE MIAA)/CN

E46 1 DELTA(2)-ISOPENTENYLPYRO PHOSPHATE TRNA-ADENOSINE TRANSFERAS

E (SHIGELLA FLEXNERI STRAIN 301 GENE MIAA)/CN

E47 1 DELTA(2)-ISOPENTENYLPYRO PHOSPHATE TRNA-ADENOSINE TRANSFERAS

E (YERSINIA PESTIS STRAIN KIM GENE MIAA)/CN

E48 1 DELTA(2)-ISOPENTENYLPYROPHOSPHATE TRNA-ADENOSINE TRANSFERASE

(ACINETOBACTER BAUMANNII STRAIN ATCC 17978)/CN

=> e esfenvalerate/cn

E49 1 ESF 6/CN

E50 1 ESFAR/CN

E51 1 --> ESFENVALERATE/CN

E52 1 ESFENVALERATE-AMITRAZ MIXT./CN

E53 1 ESFENVALERATE-CHLORPYRIFOS MIXT./CN

E54 1 ESFENVALERATE-DEF MIXT./CN

E55 1 ESFENVALERATE-FENITROTHION MIXT./CN

E56 1 ESFENVALERATE-IKI 220 MIXT./CN

E57 1 ESFENVALERATE-IMIDACLOPRID MIXT./CN

E58 1 ESFENVALERATE-PENTHIOPYRAD MIXT./CN

E59 1 ESFENVALERATE-PIPERONYL BUTOXIDE MIXT./CN

E60 1 ESFENVALERATE-THIODAN MIXT./CN

=> s e51

L3 1 ESFENVALERATE/CN

=> d l3

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 66230-04-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzeneacetic acid, 4-chloro- $\alpha$ -(1-methylethyl)-, (S)-cyano(3-phenoxyphenyl)methyl ester, ( $\alpha$ S)- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetic acid, 4-chloro- $\alpha$ -(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester, [S-(R\*,R\*)]-

OTHER NAMES:

CN (S)- $\alpha$ -Cyano-3-phenoxybenzyl (S)-2-(4-chlorophenyl)isovalerate

CN (S,S)-Fenvalerate

CN  $\alpha$ -Sum

CN 1S,1'S-Fenvalerate

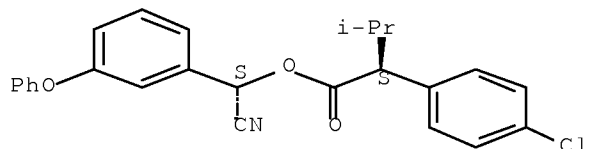
CN A $\alpha$

CN Asana

CN Asana XL

CN Esfenvalerate  
 CN Fenvalerate  $\alpha$   
 CN Fenvalerate  $A\alpha$   
 CN OMS 3023  
 CN S 1844  
 CN S 5602A $\alpha$   
 CN Sumi-alfa  
 CN Sumi-alpha  
 CN Sumi-Gold  
 CN Sumicidin A $\alpha$   
 CN Sumidan  
 FS STEREOSEARCH  
 DR 72650-28-3  
 MF C25 H22 Cl N O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, HSDB\*, MRCK\*, MSDS-OHS, PROMT, RTECS\*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

970 REFERENCES IN FILE CA (1907 TO DATE)  
 72 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 981 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e ethofenprox/cn

E61	1	ETHOFAT O 15/CN
E62	1	ETHOFAT O 20/CN
E63	1 -->	ETHOFENPROX/CN
E64	1	ETHOFENPROX-DACONIL MIXT./CN
E65	1	ETHOFENPROX-DACONIL-PASSPORT MIXT./CN
E66	1	ETHOFENPROX-DIAFENTHIURON MIXT./CN
E67	1	ETHOFENPROX-IKI 220 MIXT./CN
E68	1	ETHOFENPROX-THIODICARB MIXT./CN
E69	1	ETHOFENPROX-TOLFENPYRAD MIXT./CN
E70	1	ETHOFIBRATE/CN
E71	1	ETHOFOR RO 40/CN
E72	1	ETHOFORM/CN

=> s e53

L4 1 "ESFENVALERATE-CHLORPYRIFOS MIXT. "/CN

=> s e63

L5 1 ETHOFENPROX/CN

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 80844-07-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzene, 1-[[2-(4-ethoxyphenyl)-2-methylpropoxy]methyl]-3-phenoxy-  
(CA

INDEX NAME)

OTHER NAMES:

CN 2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether

CN 4-Ethoxyneophyl 3-phenoxybenzyl ether

CN Ethofenprox

CN Ethophenprox

CN Ethoproxyfen

CN Ethoproxyphen

CN Etof

CN Etofenprox

CN MTI 500

CN SA 130301

CN Trebon

MF C25 H28 O3

CI COM

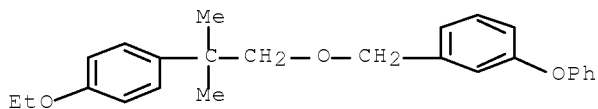
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, CA,  
CABA,

CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB,  
DDFU,

DRUGU, MEDLINE, MRCK\*, PROMT, RTECS\*, TOXCENTER, USAN, USPAT2,  
USPATFULL

(\*File contains numerically searchable property data)

Other Sources: WHO



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

763 REFERENCES IN FILE CA (1907 TO DATE)

92 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

768 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e fenpropathrin/cn

E73 1 FENPRINAST HYDROCHLORIDE/CN

E74 1 FENPROPANATE/CN

E75 1 --> FENPROPATHRIN/CN

E76	1	FENPROPATHRIN-ABAMECTIN MIXT./CN
E77	1	FENPROPATHRIN-ACEPHATE MIXT./CN
E78	1	FENPROPATHRIN-CLOFENTEZINE MIXT./CN
E79	1	FENPROPATHRIN-EMAMECTIN BENZOATE MIXT./CN
E80	1	FENPROPATHRIN-ENDOSULFAN MIXT./CN
E81	1	FENPROPATHRIN-FENBUTATIN OXIDE MIXT./CN
E82	1	FENPROPATHRIN-HEXYTHIAZOX MIXT./CN
E83	1	FENPROPATHRIN-IKI 220 MIXT./CN
E84	1	FENPROPATHRIN-IVERMECTIN MIXT./CN

=> s e75

L6 1 FENPROPATHRIN/CN

=> d 16

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 39515-41-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 2,2,3,3-tetramethyl-,  
cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN (±)-Fenpropathrin

CN α-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate

CN 2,2,3,3-Tetramethylcyclopropanecarboxylic acid  
cyano(3-phenoxyphenyl)methyl ester

CN Danimen

CN Danitol

CN Danitol 10EC

CN Danitol Fiori

CN Fenpropanate

CN Fenpropathrin

CN Kilumal

CN Meiothrin

CN Meothrin

CN Miothrin

CN Rody

CN S 3206

CN SD 41706

CN Smash

CN Tame

CN WL 41706

CN XE 938

DR 64257-84-7

MF C22 H23 N O3

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
BIOTECHNO, CA,

CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
CSNB,

DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE,  
MRCK\*,

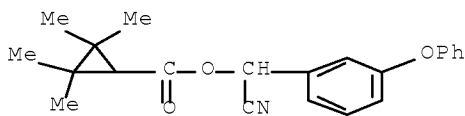
MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, ULIDAT,  
USPAT2,

USPATFULL, VETU

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1518 REFERENCES IN FILE CA (1907 TO DATE)

82 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1536 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e fenvalerate/cn

E85	1	FENURONE/CN
E86	1	FENVAL/CN
E87	1 -->	FENVALERATE/CN
E88	1	FENVALERATE A/CN
E89	1	FENVALERATE B/CN
E90	1	FENVALERATE AA/CN
E91	1	FENVALERATE AB/CN
E92	1	FENVALERATE-AZADIRACTIN MIXT./CN
E93	1	FENVALERATE-CHLORPYRIFOS MIXTURE/CN
E94	1	FENVALERATE-DEF MIXT./CN
E95	1	FENVALERATE-DIAZINON MIXT./CN
E96	1	FENVALERATE-DICHLORVOS MIXT./CN

=> s e87

L7 1 FENVALERATE/CN

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 51630-58-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzeneacetic acid, 4-chloro- $\alpha$ -(1-methylethyl)-,  
cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN  $\alpha$ -Cyano-3-phenoxybenzyl 2-(4-chlorophenyl)isovalerate

CN Agrofen

CN Aqmatrine

CN Belmark

CN Cyano(3-phenoxyphenyl)methyl 4-chloro- $\alpha$ -(1-methylethyl)benzeneacetate

CN Ectrin

CN Evercide 2362

CN Fenaxin

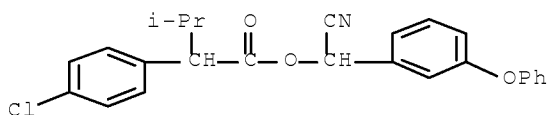
CN Fenkem

CN Fenkill

CN Fenoxin

CN Fenval

CN Fenvalerate  
 CN Furitrothion  
 CN Hafen  
 CN Insectral  
 CN Phenaxin  
 CN Phenoxin  
 CN Phenvalerate  
 CN Pydrin  
 CN S 5602  
 CN Sanmarton  
 CN SCS  
 CN SD 43775  
 CN Sumicidin  
 CN Tatafen  
 CN Tribute  
 CN Valour  
 CN Vapcocidin  
 CN WL 43775  
 DR 131641-62-8  
 MF C25 H22 Cl N O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,  
 CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 CSNB,  
 DDFU, DETHERM\*, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB,  
 IMSCOSEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*,  
 SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4396 REFERENCES IN FILE CA (1907 TO DATE)  
 125 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4413 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e flucythrinate/cn

E97	1	FLUCYCLOXURON-IKI 220 MIXT./CN
E98	1	FLUCYCLOXURON-THETA-CYPERMETHRIN MIXT./CN
E99	1 -->	FLUCYTHRINATE/CN
E100	1	FLUCYTHRINATE-IKI 220 MIXT./CN
E101	1	FLUCYTHRINATE-MALATHION MIXT./CN
E102	1	FLUCYTHRINATE-MONOCROTOPHOS MIXT./CN
E103	1	FLUCYTHRINATE-PENTHIOPYRAD MIXT./CN

E104 1 FLUCYTOSIN/CN  
 E105 1 FLUCYTOSINE/CN  
 E106 1 FLUDAC/CN  
 E107 1 FLUDALANINE/CN  
 E108 1 FLUDARA/CN

=> s e99

L8 1 FLUCYTHRINATE/CN

=> d 18

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 70124-77-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Benzeneacetic acid, 4-(difluoromethoxy)- $\alpha$ -(1-methylethyl)-,  
 cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN  $\alpha$ -Cyano-3-phenoxybenzyl 2-[p-(difluoromethoxy)phenyl]isovalerate

CN AC 222705

CN CyBolt

CN Flucythrinate

CN Fluorocythrin

CN Pay-Off

DR 102984-46-3, 71611-31-9

MF C26 H23 F2 N O4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,

CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 CSNB,

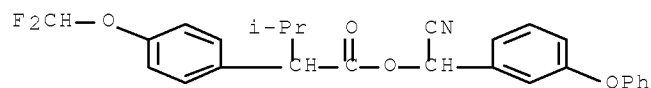
DDFU, DRUGU, EMBASE, HSDB\*, MEDLINE, MRCK\*, PROMT, RTECS\*,  
 TOXCENTER,

USPAT2, USPATFULL, VETU

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

739 REFERENCES IN FILE CA (1907 TO DATE)

66 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

747 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e permethrin/cn

E109 1 PERMETHRIC ACID POTASSIUM SALT/CN

E110 1 PERMETHRIC ACID SODIUM SALT/CN

E111 1 --> PERMETHRIN/CN



E112	1	PERMETHRIN CARBOXYLESTERASE/CN
E113	1	PERMETHRIN ESTERASE/CN
E114	1	PERMETHRIN HYDROLASE/CN
E115	1	PERMETHRIN MONOOXYGENASE/CN
E116	1	PERMETHRIN-ACEPHATE MIXT./CN
E117	1	PERMETHRIN-AMITRAZ MIXT./CN
E118	1	PERMETHRIN-BASSA-MALATHION MIXT./CN
E119	1	PERMETHRIN-BENDIOCARB MIXT./CN
E120	1	PERMETHRIN-CHLORDIMEFORM MIXT./CN

=> s e111

L9 1 PERMETHRIN/CN

=> d 19

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 52645-53-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-

,  
(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER NAMES:

CN (3-Phenoxyphenyl)methyl 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylate

CN 3-Phenoxybenzyl 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylate

CN 3-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CN Acticin

CN Adion

CN Ambush

CN Aninsen Per-30

CN Anomethrin N

CN Antiborer 3768

CN Astro

CN Bansect

CN Bematin 987

CN BioKill

CN Butox 50

CN Chinetrin

CN Cooper

CN Coopex

CN Corsair

CN Damminix

CN Dancide PS 150

CN Dichlorophenothrin

CN Diffusil H

CN Dagnet

CN Dagnet FT

CN Dragon

CN Ecsumin

CN Ectiban

CN Efmethrin

CN Eliminator Ant, Flea & Tick Killer

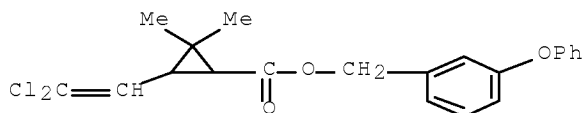
CN Elimite

CN Eulan SPA

CN Exmin

CN FMC 33297  
 CN FMC 41655  
 CN ICI-PP 557  
 CN Imperator  
 CN Insectal Plus  
 CN Insorbicid MP  
 CN Ipitox  
 CN JF 7065  
 CN Kaleait  
 CN Kavil  
 CN Kestrel  
 CN Kestrel (pesticide)  
 CN Kudos  
 CN Last Call  
 CN Lyclear  
 CN m-Methoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate  
 CN m-Phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate  
 CN Mitin BC  
 CN Permethrin  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for

DISPLAY  
 DR 57608-04-5, 60018-94-2, 63364-00-1, 75497-64-2, 93388-66-0  
 MF C21 H20 Cl2 O3  
 CI COM  
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5980 REFERENCES IN FILE CA (1907 TO DATE)  
 157 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 6002 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e taufluvalinate/cn

E121	1	TAUFENIN/CN
E122	1	TAUFERIN/CN
E123	0 -->	TAUFLUVALINATE/CN
E124	1	TAUFON/CN
E125	1	TAUGLICOLCILLIN/CN
E126	1	TAUKARD/CN
E127	1	TAULIN/CN
E128	1	TAULIZ/CN
E129	1	TAUMIDRINE/CN
E130	1	TAUMUSTINE/CN
E131	1	TAUMYCIN A/CN
E132	1	TAUMYCIN B/CN

=> e fluvalinate/cn

E133	1	FLUTROPIUM BROMIDE/CN
E134	1	FLUVAL/CN
E135	1 -->	FLUVALINATE/CN
E136	1	FLUVALINATE-AMITRAZ MIXT./CN
E137	1	FLUVALINATE-BROMFENVINPHOS MIXT./CN
E138	1	FLUVALINATE-BROMOPROPYLATE MIXT./CN
E139	1	FLUVALINATE-CHLORPYRIFOS MIXT./CN
E140	1	FLUVALINATE-HEPTENOPHOS MIXT./CN
E141	1	FLUVALINATE-MALATHION MIXT./CN
E142	1	FLUVALINATE-PENTHIOPYRAD MIXT./CN
E143	1	FLUVALINATE-TOLFENPYRAD MIXT./CN
E144	1	FLUVAROL/CN

=> s e135

L10 1 FLUVALINATE/CN

=> d l10

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 69409-94-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Valine, N-[2-chloro-4-(trifluoromethyl)phenyl]-,  
cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN DL-Valine, N-[2-chloro-4-(trifluoromethyl)phenyl]-,  
cyano(3-phenoxyphenyl)methyl ester

OTHER NAMES:

CN Fluvalinate

CN ZR 3210

DR 79472-91-6

MF C26 H22 Cl F3 N2 O3

CI COM

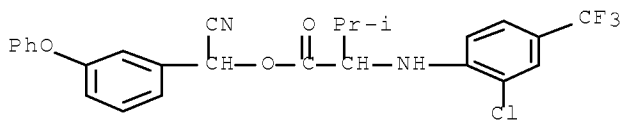
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,  
CABA,

CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU,  
DRUGU,

EMBASE, HSDB\*, MEDLINE, MRCK\*, MSDS-OHS, PATDPASPC, PROMT,  
RTECS\*,

TOXCENTER, USPAT2, USPATFULL, VETU

(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

824 REFERENCES IN FILE CA (1907 TO DATE)

54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

831 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e tralomethrin/cn

E145	1	TRALKOXYDIM-TRIFLURALIN MIXT./CN
E146	1	TRALOCYTHRIN/CN
E147	1 -->	TRALOMETHRIN/CN
E148	1	TRALOMETHRIN-ENDOSULFAN MIXT./CN
E149	1	TRALOMETHRIN-IKI 220 MIXT./CN
E150	1	TRALOMETHRIN-PROPICONAZOLE MIXT./CN
E151	1	TRALONIDE/CN
E152	1	TRALPUSH PROTEIN (HUMAN CLONE HCP38530-197000064918009 GENE TRALPUSH)/CN
E153	1	TRAM (AGROBACTERIUM TUMEFACIENS GENE TRAM)/CN
E154	1	TRAM (BACTEROIDES FRAGILIS STRAIN YCH46)/CN
E155	1	TRAM (CITROBACTER FREUNDII GENE TRAM)/CN
E156	1	TRAM (ERWINIA AMYLOVORA STRAIN LEBB66 COUNTRY LEBANON PLASMI D PEL60 GENE TRAM)/CN

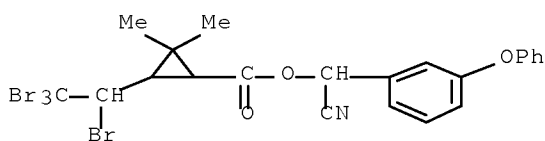
=> s e147

L11 1 TRALOMETHRIN/CN

=> d l11

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 66841-25-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(1,2,2,2-tetrabromoethyl)-, cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)  
 OTHER NAMES:  
 CN Bengal Fire Ant Killer  
 CN HAG 107  
 CN RU 25472  
 CN SAGA  
 CN Scout  
 CN Scout X-tra  
 CN Tracker  
 CN Tralomethrin  
 DR 81604-63-9

MF C22 H19 Br4 N O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, CA,  
 CAPLUS,  
 CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, HSDB\*,  
 MEDLINE,  
 MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

454 REFERENCES IN FILE CA (1907 TO DATE)  
 72 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 458 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e bifenthrin/cn

E157	1	BIFENOX-SAP MIXT./CN
E158	1	BIFENOX-TRIFLURALIN MIXT./CN
E159	1 -->	BIFENTHRIN/CN
E160	1	BIFENTHRIN-ACEPHATE MIXT./CN
E161	1	BIFENTHRIN-ACETAMIPRID MIXT./CN
E162	1	BIFENTHRIN-ACRINATHRIN MIXT./CN
E163	1	BIFENTHRIN-AMITRAZ MIXT./CN
E164	1	BIFENTHRIN-ATRAZINE MIXT./CN
E165	1	BIFENTHRIN-CARBOSULFAN MIXT./CN
E166	1	BIFENTHRIN-CHLORDIMEFORM MIXT./CN
E167	1	BIFENTHRIN-CLOTHIANIDIN MIXT./CN
E168	1	BIFENTHRIN-CYFLUTHRIN MIXT./CN

=> s e159

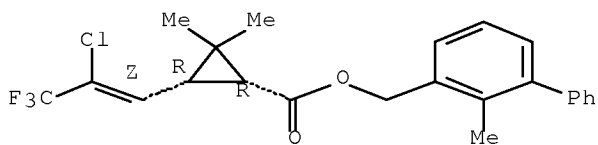
L12 1 BIFENTHRIN/CN

=> d l12

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 82657-04-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propen-1-yl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester,

(1R,3R)-rel- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, [1 $\alpha$ ,3 $\alpha$ (Z)]-( $\pm$ )-  
 CN Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel- (9CI)  
 OTHER NAMES:  
 CN AGST 02002  
 CN Bifenthrin  
 CN Bifenthrine  
 CN Biflex  
 CN Biflex FT  
 CN Biphenate  
 CN Biphenthrin  
 CN Biphentrin  
 CN Brigade  
 CN Brigade 10WP  
 CN Brigata Flo  
 CN Capture  
 CN Capture (pesticide)  
 CN Capture LFR  
 CN Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, [1 $\alpha$ ,3 $\alpha$ (Z)]-  
 CN Discipline  
 CN Empower  
 CN Fanfare  
 CN FMC 54800  
 CN Kiros EV  
 CN Onyx  
 CN Onyx (insecticide)  
 CN Seizer  
 CN Semafor  
 CN Silencer  
 CN Talstar  
 CN TalstarOne  
 FS STEREOSEARCH  
 DR 92880-79-0, 107497-60-9, 107538-32-9  
 MF C23 H22 Cl F3 O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, EMBASE, HSDB\*, MEDLINE, MRCK\*, PIRA, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Relative stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1698 REFERENCES IN FILE CA (1907 TO DATE)  
 104 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1730 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e cycloprothrin/cn

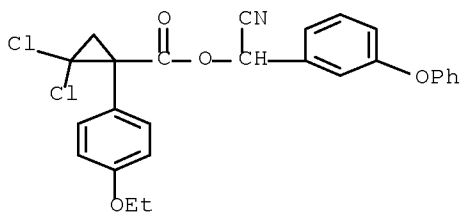
E169	1	CYCLOPROPYNYL CATION/CN
E170	1	CYCLOPROPYNYLIDYNE/CN
E171	1 -->	CYCLOPROTHRIN/CN
E172	1	CYCLOPROTHRIN-IKI 220 MIXT./CN
E173	1	CYCLOPROTHRIN-MONOCROTAPHOS MIXT./CN
E174	1	CYCLOPROTHRIN-PENTHIOPYRAD MIXT./CN
E175	1	CYCLOPROTOBUXINE C/CN
E176	1	CYCLOPROTOBUXINAMINE/CN
E177	1	CYCLOPROTOBUXINE A/CN
E178	1	CYCLOPROTOBUXINE C/CN
E179	1	CYCLOPROTOBUXINE C, N-ISOBUTYRYL-/CN
E180	1	CYCLOPROTOBUXINE D/CN

=> s e171

L13 1 CYCLOPROTHRIN/CN

=> d l13

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 63935-38-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Cyclopropanecarboxylic acid, 2,2-dichloro-1-(4-ethoxyphenyl)-, cyano(3-phenoxyphenyl)methyl ester (CA INDEX NAME)  
 OTHER NAMES:  
 CN Cycloprothrin  
 CN Cyclosal  
 CN Cyclosal (insecticide)  
 CN GH 414  
 CN NK 8116  
 CN Phencyclate  
 MF C26 H21 Cl2 N O4  
 CI COM  
 LC STN Files: AGRICOLA, AQUIRE, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

177 REFERENCES IN FILE CA (1907 TO DATE)

58 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

180 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e eflusilate/cn

E181	1	EFLUMAST/CN
E182	1	EFLUSILANAT/CN
E183	0 -->	EFLUSILINATE/CN
E184	1	EFLUX PROTEIN (FRANCISELLA TULARENSIS TULARENSIS STRAIN FSC 198)/CN
E185	1	EFLUX PROTEIN (FRANCISELLA TULARENSIS TULARENSIS STRAIN SCHU S4)/CN
E186	1	EFM 2E02/CN
E187	1	EFMA/CN
E188	1	EFMETHRIN/CN
E189	1	EFN 4230/CN
E190	1	EFNA2-PROV PROTEIN (XENOPUS LAEVIS CLONE MGC:53535 IMAGE:557 2815)/CN
E191	1	EFNA3-PROV PROTEIN (XENOPUS LAEVIS CLONE MGC:64593 IMAGE:688 1147)/CN
E192	1	EFNB1 PROTEIN (MOUSE STRAIN FVB/N CLONE MGC:11458 IMAGE:2648 527)/CN

=> e flusilate/cn

E193	1	FLUSILFOCON/CN
E194	1	FLUSILFOCON E/CN
E195	0 -->	FLUSILINATE/CN
E196	1	FLUSIN F/CN
E197	1	FLUSIN GH/CN
E198	1	FLUSOL/CN
E199	1	FLUSONE/CN
E200	1	FLUSOXOLOL/CN
E201	1	FLUSPIPERONE/CN
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E203	1	FLUSPIRILENE/CN
E204	1	FLUSPIRILINE/CN

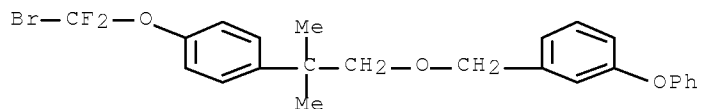


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=> e fubfenprox/cn
E205      1      FUBERIDAZOLE/CN
E206      1      FUBERIDAZOLE-TRIADIMENOL MIXT./CN
E207      1 --> FUBFENPROX/CN
E208      1      FUBIZHI/CN
E209      1      FUBOL/CN
E210      1      FUBOL GOLD/CN
E211      1      FUBP1 PROTEIN (HUMAN CLONE IMAGE:4330984 GENE
FUBP1)/CN
E212      1      FUBP1 PROTEIN (HUMAN CLONE MGC:29580
IMAGE:4891583)/CN
E213      1      FUBP1-PROV PROTEIN (XENOPUS LAEVIS CLONE MGC:53183
IMAGE:554
3059)/CN
E214      1      FUBROGONIUM IODIDE/CN
E215      1      FUBROMEGAN/CN
E216      1      FUC 1582/CN
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=> s e207
L14      1 FUBFENPROX/CN
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=> d l14
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L14 ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN  111872-58-3  REGISTRY
ED  Entered STN:  19 Dec 1987
CN  Benzene, 1-[[2-[4-(bromodifluoromethoxy)phenyl]-2-
methylpropoxy]methyl]-3-
phenoxy- (CA INDEX NAME)
OTHER NAMES:
CN  4-Bromodifluoromethoxyneophyl 3-phenoxybenzyl ether
CN  Anniverse
CN  Brofenprox
CN  Fubfenprox
CN  Halfenprox
CN  MTI 732
CN  Sirbon
MF  C24 H23 Br F2 O3
CI  COM
SR  CA
LC  STN Files:  ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
CHEMCATS,
CHEMLIST, TOXCENTER, USPAT2, USPATFULL
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

162 REFERENCES IN FILE CA (1907 TO DATE)

46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
165 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e resmethrin/cn

E217	1	RESLOOM M 75/CN
E218	1	RESLOOM RM 441/CN
E219	1 -->	RESMETHRIN/CN
E220	1	RESMIN/CN
E221	1	RESMIT/CN
E222	1	RESNO TL/CN
E223	1	RESNSAND 34H/CN
E224	1	RESNSAND 34S/CN
E225	1	RESNSAND 69N/CN
E226	1	RESNSAND 87P/CN
E227	1	RESO/CN
E228	1	RESO BLUE/CN

=> s e219

L15 1 RESMETHRIN/CN

=> d l15

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 10453-86-8 REGISTRY

ED Entered STN: 16 Nov 1984

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propen-1-yl)-,

[5-(phenylmethyl)-3-furanyl]methyl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Furanmethanol, 5-benzyl-, 2,2-dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylate (8CI)

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,

[5-(phenylmethyl)-3-furanyl]methyl ester (9CI)

CN Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8CI)

OTHER NAMES:

CN (5-Benzyl-3-furyl)methyl 2,2-dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylate

CN (5-Benzyl-3-furyl)methyl chrysanthemate

CN (5-Benzyl-3-furyl)methyl-DL-cis, trans-chrysanthemate

CN 5-Benzyl-3-furylmethyl ( $\pm$ )-cis-trans-chrysanthemate

CN 5-Benzylfurfuryl chrysanthemate

CN ARI-B

CN Chrysron

CN Crossfire

CN dl-cis,trans-[(5-Benzyl-3-furyl)methyl]chrysanthemumate

CN Enforcer

CN NIA 17370

CN NRDC 104

CN Penick 1382

CN Penncapthrin

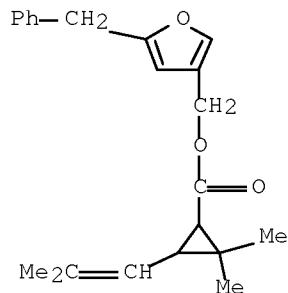
CN Pyrethrin

CN Resmethrin

CN SBP 1382

CN SBP 1383

CN Seco  
 CN [5-(Phenylmethyl)-3-furanyl]methyl  
 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate  
 DR 24004-07-7  
 MF C22 H26 O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECHNO, CA,  
 CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,  
 CSNB,  
 DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE,  
 MSDS-OHS,  
 PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2,  
 USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 124
L25          381 L24

=> s 125 and (12-110)
          5861 L2
          981 L3
           2 L4
          768 L5
          1536 L6
          4413 L7
           747 L8
          6002 L9
           831 L10
L26          85 L25 AND ((L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9
OR L10))

=> s 126 and pesticides/ct
          51027 PESTICIDES/CT
L27          13 L26 AND PESTICIDES/CT
  
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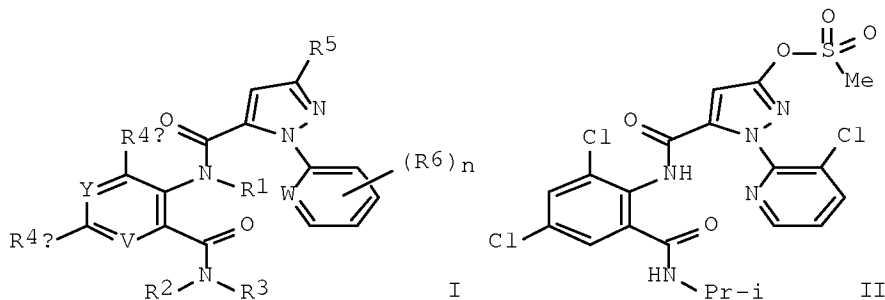
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 4505991 AY<2003  
 3975343 PRY<2003  
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=> d 128 ibib abs ti hit 1-2

L28 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:453202 CAPLUS Full-text  
 DOCUMENT NUMBER: 141:23526  
 TITLE: Novel pyrazole-based anthranilamide  
 insecticides and  
 their preparation, compositions, and use  
 INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip;  
 Selby,  
 Thomas Paul  
 PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046129	A2	20040603	WO 2003-US36167	
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US 20060014808	A1	20060119	US 2005-529612
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MX 2005005025	A	20050803	MX 2005-5025
20050510 <--			
PRIORITY APPLN. INFO.:			
20021115 <--			
			US 2002-426693P P
			WO 2003-US36167 W
20031112			
OTHER SOURCE(S):	MARPAT 141:23526		
GI			



AB The invention provides title compds. I and their N-oxides and suitable salts [wherein: Y, V = N or CR<sub>4a</sub>; W = N, CH, or CR<sub>6</sub>; R<sub>1</sub> = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxy carbonyl, (di)alkylaminocarbonyl; R<sub>2</sub> = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxy carbonyl, or alkylcarbonyl; R<sub>3</sub> = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR<sub>2</sub>R<sub>3</sub> = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R<sub>4a</sub>, R<sub>4b</sub> = H, various carbon and heteroat. substituents; R<sub>5</sub> = alk(en/yn)yl, various derivs. of OH, SH, and NH<sub>2</sub>; R<sub>6</sub> = (halo)alk(en/yn)yl, OH and derivs. or thio analogs, halo, cyano, CO<sub>2</sub>H, (di)alkylamino, (un)substituted Ph, PhCH<sub>2</sub>, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compns. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For

instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylate, which was oxidized to a dihydropyrazolone, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH<sub>2</sub>, to give invention compound II. In a test of larval *Plutella xylostella* on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against *Spodoptera frugiperda*, *Myzus persicae*, and *Empoasca fabae*.

L28 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:465981 CAPLUS Full-text

DOCUMENT NUMBER: 137:47212

TITLE: Preparation of quinazolinones and pyridopyrimidinones

INVENTOR(S): Annis, Gary David; Myers, Brian James; Selby, Thomas

Paul; Stevenson, Thomas Martin; Zimmerman,

William

Thomas

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 180 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

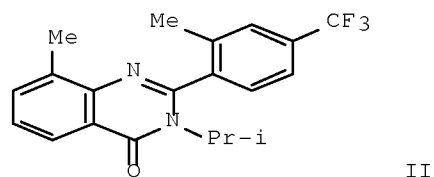
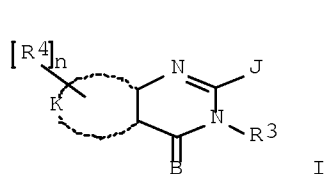
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2002048115	A3	20020906		
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 PRIORITY APPLN. INFO.: US 2000-254614P P  
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 WO 2001-US46629 W  
 20011203 <--  
 OTHER SOURCE(S): MARPAT 137:47212  
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AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous linking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R3 = G, alkyl, cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4], useful for controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in test on diamondback moth (*Plutella xylostella*)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

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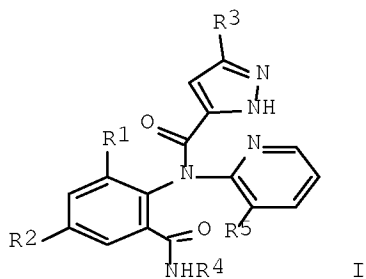
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L36 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:      2003:261833 CAPLUS Full-text
DOCUMENT NUMBER:      138:287669
TITLE:      Preparation of pyrazolylcarbonyl pyridinyl
              anthranilamides as arthropodocides
INVENTOR(S):      Zimmerman, William Thomas
PATENT ASSIGNEE(S):      E. I. Du Pont de Nemours & Co., USA
SOURCE:      PCT Int. Appl., 46 pp.
              CODEN: PIXXD2
DOCUMENT TYPE:      Patent
LANGUAGE:      English
FAMILY ACC. NUM. COUNT: 1
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 PRIORITY APPLN. INFO.: US 2001-324011P P  
 20010921 <--  
 WO 2002-US28274 W  
 20020906 <--  
 OTHER SOURCE(S): MARPAT 138:287669  
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AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkylthio, alkoxycarbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.], were prepared Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)<sub>2</sub> and cat. DMF in CH<sub>2</sub>Cl<sub>2</sub> to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me<sub>2</sub>CHNH<sub>2</sub> to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(1-methylethyl)amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with *Plutella xylostella* gave ≤10% feeding damage.

TI Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodocides

L36 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2003:242097 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:267201  
 TITLE: Pesticidal compositions for coating plant propagation  
 material containing anthranilamides  
 INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 147 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
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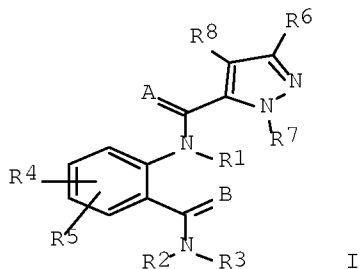
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OTHER SOURCE(S):

MARPAT 138:267201

GI



AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

TI Pesticidal compositions for coating plant propagation material containing  
anthranilamides

L36 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:154155 CAPLUS Full-text

DOCUMENT NUMBER: 138:200332

TITLE: Arthropodicidal anthranilamides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul;  
Stevenson,

Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

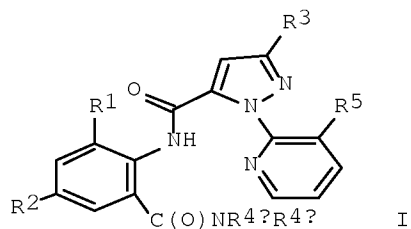
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PATENT INFORMATION:

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GI					



AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodocidal compns. containing anthranilamides I may further include addnl. biol.

active compds. or agents selected from arthropodocides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurstaki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

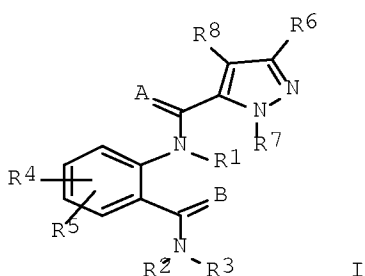
L36 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2003:154154 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:200331  
 TITLE: Method for controlling particular insect pests  
 by  
 applying anthranilamide compounds  
 INVENTOR(S): Lahm, George Philip; McCann, Stephen  
 Frederick; Patel,  
 Kanu Maganbhai; Selby, Thomas Paul; Stevenson,  
 Thomas  
 Martin  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 150 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

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WO 2003015518	A1	20030227	WO 2002-US25613	
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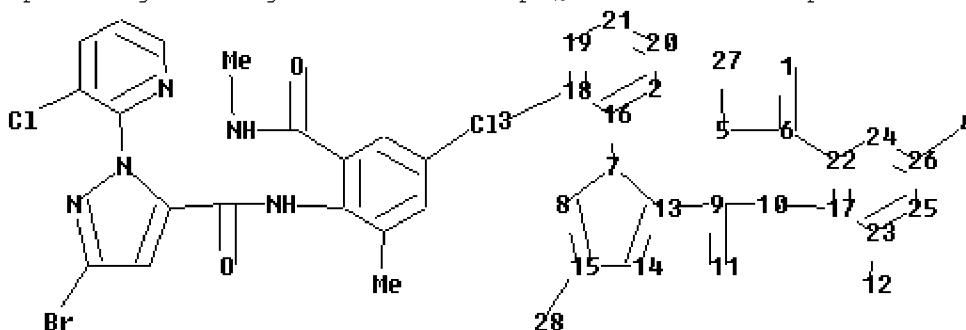


AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

<http://www.cas.org/support/stngen/stndoc/properties.html>

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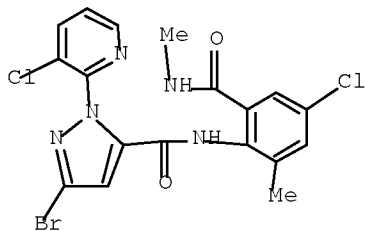
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L13 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2004:270097 CAPLUS Full-text  
 DN 140:282468  
 TI Cloning and characterization of insect ryanodine receptors and  
 their use  
 for screening for insecticidal compounds  
 IN Caspar, Timothy; Cordova, Daniel; Gutteridge, Steven; Rauh, James  
 J.;  
 Smith, Rejane M.; Wu, Lihong; Tao, Yong  
 PA E. I. Du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 731 pp.  
 CODEN: PIXXD2  
 DT Patent  
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 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2003:242097 CAPLUS Full-text  
 DN 138:267201  
 TI Pesticidal compositions for coating plant propagation material  
 containing

anthranilamides  
 IN Berger, Richard Alan; Flexner, John Lindsey  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO PCT Int. Appl., 147 pp.  
 CODEN: PIXXD2

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 RE.CNT 2       THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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L13   ANSWER 3 OF 4   CAPLUS   COPYRIGHT 2009 ACS on STN  
 AN    2003:154155   CAPLUS   Full-text  
 DN    138:200332  
 TI    Arthropodicidal anthranilamides  
 IN    Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin  
 PA    E. I. Du Pont de Nemours & Co., USA  
 SO    PCT Int. Appl., 82 pp.  
       CODEN: PIXXD2  
 DT    Patent  
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 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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L13 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2003:154154 CAPLUS Full-text  
 DN 138:200331  
 TI Method for controlling particular insect pests by applying  
 anthranilamide  
 compounds  
 IN Lahm, George Philip; McCann, Stephen Frederick; Patel, Kanu  
 Maganbhai;  
 Selby, Thomas Paul; Stevenson, Thomas Martin  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO PCT Int. Appl., 150 pp.  
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 LA English  
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L15 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:270097 CAPLUS Full-text  
 DOCUMENT NUMBER: 140:282468  
 TITLE: Cloning and characterization of insect  
 ryanodine  
 receptors and their use for screening for  
 insecticidal  
 compounds  
 INVENTOR(S): Caspar, Timothy; Cordova, Daniel; Gutteridge,  
 Steven;  
 Rauh, James J.; Smith, Rejane M.; Wu, Lihong;  
 Tao,  
 Yong  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA  
 SOURCE: PCT Int. Appl., 731 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
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 US 2002-427324P P  
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 US 2003-668767 A3  
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 WO 2003-US29834 W  
 20030923

AB The genes encoding ryanodine receptor homologs are provided from multiple insect families including lepidopteran tobacco budworm (*Heliothis virescens*), homopteran green peach aphid (*Myzus persicae*), corn plant hopper (*Peregrinus maidis*), cotton melon aphid (*Aphis gossypii*), and fruitfly (*Drosophila melanogaster*). The full-length genes were isolated, cloned, and amplified in bacterial cells. Expression in insect cells shows that the recombinant protein folds into a functional calcium release channel. The genes and their corresponding polypeptides have a number of uses including, but not limited to, the isolation of other pest ryanodine receptors, the development of screens to identify insecticidally active compds., use of fragments of genes as pesticides, fragments of protein for antibody production, fragments of protein for determination of the structure of insecticide binding sites, and identification of insecticides that disrupt the calcium balance in cells through other messengers that interact with the receptor calcium release mechanism. Methods are outlined for overcoming toxic effects of expressing recombinant proteins in host cells.

TI Cloning and characterization of insect ryanodine receptors and their use

for screening for insecticidal compounds

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

PRAI US 2002-412795P P 20020923 <--  
 US 2002-427324P P 20021118 <--  
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 WO 2003-US29834 W 20030923

IT 58-08-2, Caffeine, biological studies 11103-72-3, Ruthenium red  
 15662-33-6, Ryanodine 23214-92-8, Doxorubicin 101927-49-5  
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 3 362639-62-1 362639-69-8 438450-41-0 500005-94-7 500006-21-  
 3 500007-97-6 500008-00-4 500008-14-0 500008-29-7 500008-36-  
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 675826-03-6 675826-04-7  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (cloning and characterization of insect ryanodine receptors and  
 their use for screening for insecticidal compds.)

L15 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:101149 CAPLUS Full-text

DOCUMENT NUMBER: 140:146150

TITLE: Method for preparing fused oxazinones by  
 cyclocondensation of ortho-amino aromatic

carboxylic

acids with carboxylic acids

INVENTOR(S): Taylor, Eric Deguyon

PATENT ASSIGNEE(S): E.I. Du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2004011447	A2	20040205	WO 2003-US23821	
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 20030211   WO 2003-US23821       W  
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 OTHER SOURCE(S):               MARPAT 140:146150  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE  
 PRINT \*

AB    A method for preparing a fused oxazinone [I; J = an optionally  
       substituted carbon moiety; K together with the two contiguous  
       liking carbon atoms = each (un)substituted a fused Ph ring or a  
       fused 5- or 6-membered heteroarom. ring] is disclosed in which (1)  
       a carboxylic acid of formula J-CO<sub>2</sub>H is contacted with a sulfonyl  
       chloride of formula LS(O)<sub>2</sub>Cl [L= each (un)substituted alkyl,  
       haloalkyl, or Ph] in the presence of an optionally substituted  
       pyridine compound, the nominal mole ratio of sulfonyl chloride to  
       carboxylic acid being from about 0.75 to 1.5; (2) the mixture  
       prepared in (1) is contacted with an ortho-amino aromatic  
       carboxylic acid in the presence of an optionally substituted  
       pyridine compound, the nominal mole ratio of the ortho-amino  
       aromatic carboxylic acid to carboxylic acid (II; K = same as  
       above) charged in (1) being from about 0.8 to 1.2; and (3) addnl.  
       sulfonyl chloride is added to the mixture prepared in (2), the  
       nominal mole ratio of addnl. sulfonyl chloride added in (3) to  
       carboxylic acid charged in (1) being at least about 0.5. More  
       specifically disclosed is a method for preparing a compound of  
       formula (III) [X = N, CR<sub>6</sub>; Y = N, CH; R<sub>1</sub> = H, R<sub>2</sub> = H, Me; R<sub>3</sub> = C1-  
       6 alkyl; R<sub>4</sub> = C1-4 alkyl, halo; R<sub>5</sub> = H, C1-4 alkyl, C1-4 haloalkyl,  
       halo; R<sub>6</sub>, R<sub>7</sub> = H, C1-4 alkyl, C1-4 haloalkyl, halo, cyano, C1-4

haloalkyl; R8 = H, C1-4 alkyl, C2-4 alkenyl, C2-4 alkynyl, C3-6 cycloalkyl, C1-4 haloalkyl, C2-4 haloalkenyl, C2-4 haloalkynyl, C3-6 halocycloalkyl, halogen, cyano, NO<sub>2</sub>, C1-4 alkoxy, C1-4 haloalkoxy, C1-4 alkylthio, C1-4 alkylsulfinyl, C1-4 alkylsulfonyl, C1-4 alkylamino, C2-8 dialkylamino, C3-6 cycloalkylamino, (C1-4 alkyl)(C3-6 cycloalkyl)amino, etc.; R9 = CF<sub>3</sub>, OCF<sub>3</sub>, OCHF<sub>2</sub>, OCH<sub>2</sub>CF<sub>3</sub>, S(O)pCF<sub>3</sub>, S(O)pCHF<sub>2</sub>, halo; p = 0-2] using a compound of formula (IV; R1 -R5 = same as above; R7-R9 = same as above; X, Y = same as above) that is characterized by preparing the fused oxazinone IV by the method above, using a compound of the formula LS(O)2Cl as the sulfonyl chloride, a compound of formula (V) (R7-R9 = same as above) as the carboxylic acid, and a compound of formula (VI) (R4, R5 = same as above) as the ortho-amino aromatic carboxylic acid.

L15 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:242097 CAPLUS Full-text

DOCUMENT NUMBER: 138:267201

TITLE: Pesticidal compositions for coating plant propagation

material containing anthranilamides  
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey  
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

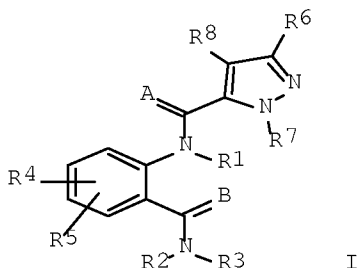
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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 OTHER SOURCE(S):           MARPAT 138:267201  
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AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

L15 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:154155 CAPLUS Full-text

DOCUMENT NUMBER: 138:200332

TITLE: Arthropodicidal anthranilamides

INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson,

Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

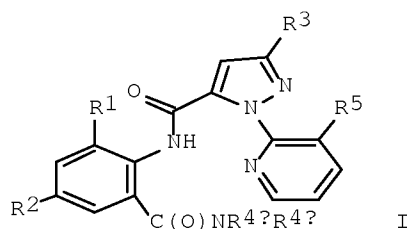
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 OTHER SOURCE(S):                   MARPAT 138:200332  
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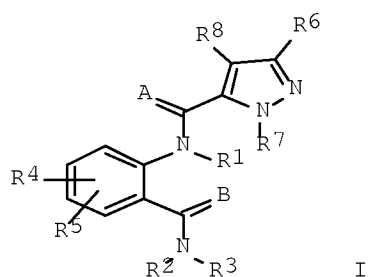


AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, *Bacillus thuringiensis* sp. aizawai, *B. thuringiensis* sp. kurstaki, *B. thuringiensis* delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

DOCUMENT NUMBER: 138:200331  
 TITLE: Method for controlling particular insect pests  
 by applying anthranilamide compounds  
 INVENTOR(S): Lahm, George Philip; McCann, Stephen  
 Frederick; Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson,  
 Thomas Martin  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 150 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PATENT INFORMATION:

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OTHER SOURCE(S):	MARPAT 138:200331			
GI				



AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones,  $\gamma$ -aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.